



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

646.3813
Job Sheet 168253



Part No: 646.3813

Job Qty: 5 ea

Part Name: AS350 Strut Bracket



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 11/13/17

Job Tracking No:

Due Date: 11/28/17

Created By: Linda Lacelle

Type: Stock

Description:

Note: DWG REV N/C IPP REV:A NEW ISSUE 12-10-22 JLM VERIFIED:DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	5 Ea		11/27/17	0.00	0.00	Start Up Machining		J.C.-L. 17-12-11
100	Bandsaw	5 pcs		11/27/17	0.00	0.22	Bandsaw1		J.C.-L. 17-12-11
110	Mill Conv	5 pcs		11/28/17	0.00	3.18	Mill Conv 1		J.C.-L. 17-12-12
120	QC	5 pcs		11/28/17	0.00	0.00	QC2		J.C.-L. 17-12-12
130	QC	5 pcs		11/28/17	0.00	0.00	QC8		F.K. 17-12-12
140	Outsource	5 pcs		11/28/17	0.00	0.00	Outsource4		J.M. 22-12-17
150	Packaging	5 pcs		11/28/17	0.00	0.00	Packaging2		J.M. 22-12-17
155	QC	5 pcs		11/28/17	0.00	0.00	QC5		J.M. 22-12-17
180	Packaging	5 pcs		11/28/17	0.00	0.00	Packaging3	CCK105	AT 18-01-12
190	QC21-SA	5 Ea		11/28/17	0.00	0.00	QC21		

Part Op 110 - 1-Machine per DWG

Descriptions: 140 - Issue P/O to ATG :

180 - ***IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV***

DAS
21
9-80

JAN 12 2018

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
90-Start up Operation 1.302'	M7075T6A0.75X0.75X0.060X0.062	1	51	0	0

Part Specifications

Specifications could not be found.

Plex 11/14/17 7:17 AM dart.boucher.sylvie

DART
AEROSPACE
S019892



AS350 Strut Bracket

PART NO: 646.3813
Revision:
Operation: Start up Operation
Change No:

Mfg Date: 12/11/17
Job No: 168253

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K64 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

RE / UPDATE

Work Order update only ☐

DART
AEROSPACE

AGAINST DEPARTMENT/PROCESS

ie ☐	Cross tube ☐	Water Jet ☐	Engineering ☐
ig ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐
ig ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐
ib ☐	Composite ☐	Supplier ☐	

ective :

MRB (QSI042) Approval

Disposition

Completed By

Lead hand / Supervisor
Approval Verification

DART
AEROSPACE
S019892



AS350 Strut Bracket

PART NO: 646.3813
Revision:
Operation: Packaging
Change No:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K64 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Root Cause

Environment ☐	☐ No Re-verification	☐ Pressure/Forced
Design ☐	☐ Operator	☐ Bending
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric
Equip/Tooling ☐	☐ Supplier	☐ Cracks
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wav
Material ☐	☐ Use for Testing	☐ Cuffs
Internal Transport ☐	☐ Poor Information	☐ Crushing
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube
Substation ☐	☐ Process Improvement	☐ Marks/Chatter
Past Expiry Date ☐	☐ Manufacturing Process	
Misidentified ☐	☐ Past Due	☐ OTHER :

Mfg Date: 12/11/17
Job No: 168253

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																									
Description Work Order Deviation				Disposition				Completed By																																																									
								Lead hand / Supervisor Approval Verification																																																									
								QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																

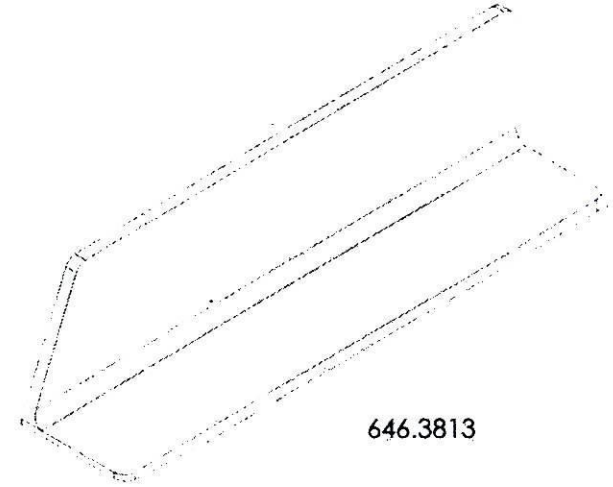
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

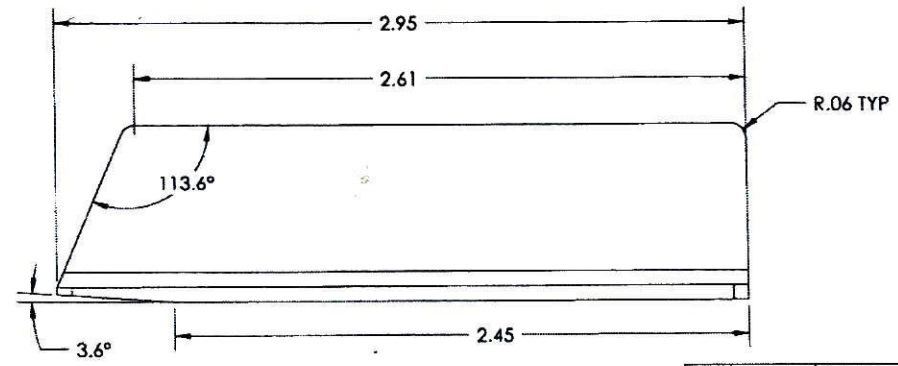
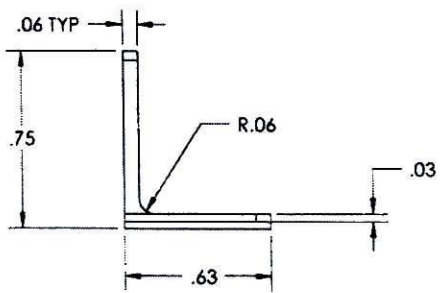
NOV 16 2017

DAS
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9-89

NO. 668253
WORK ORDER
WITHOUT NOTICE
SUBJECT TO AMENDMENT
UNCONTROLLED COPY
ENGINEERING
RETURN TO
SHOP COPY



646.3813



NEXT ASSY (S)		ORIGINAL DATE AND BY WH DRAWN BY J. GARDNER DRAWING APPROVAL	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CONTRACT NO.		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .005 3 PLACE DECIMALS ± .001 ANGLES ± .5°	SET 8	QTY 87M126
DRAWING NO.		SCALE NONE	DWG NO. 646.3800	REV. N/C
SHEET 4 OF 5		BRACKETS		

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
Root Cause				FAULT CATEGORY					
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038682

Supplier: ATG001-VC
A.T.G. Industries Inc
731 INDUSTRIELLE ROAD
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalande, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO038682

PO Date: 12/19/17

Due Date: 1/5/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Phone:

Via: Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments:

E-MAILED
DEC 27 2017

Items

Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	169179	649.4814	Doubler ISSUE P/O: _____ HARD ANODIZE, COLOR BLACK AS PER DWG. (SEE NOTE 2) PRIME IAW MIL-P-23377J TYPE1 CLASS N AS PER DWG. (SEE NOTE 2)	Firmed	1/17/18	10 pcs	0 pcs	10 pcs	\$7.25/pcs	\$72.50
2	168024	646.3812	Gusset Bracket Issue P/O to ATG : _____ Hard Anodize Black and Prime as Per Dwg 646.3800	Firmed	1/17/18	8 pcs	0 pcs	8 pcs	\$7.10/pcs	\$56.80
3	168250	646.3810	Bracket Issue P/O to ATG : _____ 1- Hard Anodize Black and Prime as per Dwg 646.3800	Firmed	1/17/18	5 pcs	0 pcs	5 pcs	\$7.55/pcs	\$37.75
4	168252	646.3812	Gusset Bracket Issue P/O to ATG : _____ Hard Anodize Black and Prime as Per Dwg 646.3800	Firmed	1/17/18	5 pcs	0 pcs	5 pcs	\$7.10/pcs	\$35.50
5	169178	649.4812	Shim ISSUE P/O: _____ HARD ANODIZE, COLOR BLACK AS PER DWG. (SEE NOTE 2) PRIME IAW MIL-P-23377J TYPE1 CLASS N AS PER DWG. (SEE NOTE 2)	Firmed	1/17/18	20 pcs	0 pcs	20 pcs	\$13.15/pcs	\$263.00
6	168253	646.3813	AS350 Strut Bracket Issue P/O to ATG : _____	Firmed	12/22/17	5 pcs	0 pcs	5 pcs	\$7.10/pcs	\$35.50



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Canada

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PURCHASE ORDER PO038682

Items										
Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
			Hard Anodize Black and Prime as Per Dwg 646.3800							
Line Item Note RUSH										
7	168025	646.3813	AS350 Strut Bracket Issue P/O to ATG : Hard Anodize Black and Prime as Per Dwg 646.3800	Firmed	12/22/17	5 pcs	0 pcs	5 pcs	\$7.10/pcs	\$35.50
Line Item Note RUSH										
8	168239-A	646.3610	Filler Issue P/O to ATG : 1- Hard Anodize Black and Prime as per Dwg 646.3600	Firmed	1/17/18	6 pcs	0 pcs	6 pcs	\$7.60/pcs	\$45.60
9	168239	646.3610	Filler Issue P/O to ATG : 1- Hard Anodize Black and Prime as per Dwg 646.3600	Firmed	1/17/18	12 pcs	0 pcs	12 pcs	\$7.60/pcs	\$91.20
10	168280	647.0210	Rail Issue P/O to ATG : AS PER MPP-172 SECTION 2.1, HARD ANODIZE COLOR BLACK, PER IAW MIL-A-8625 TYPE 3 CLASS 2 AS PER MPP-172 SECTION 4.2, PRIME AS PER IAW MIL-PRF-23377 TYPE 1 CLASS N	Firmed	1/17/18	11 pcs	0 pcs	11 pcs	\$11.50/pcs	\$126.50
11	168223	646.3110	Channel Issue P/O to ATG : 1- Hard Anodize Black and Prime as per Dwg 646.3100	Firmed	12/22/17	6 pcs	0 pcs	6 pcs	\$11.65/pcs	\$69.90
Line Item Note RUSH										
12	168839	649.4813	Shim ISSUE P/O: As Per MPP-172 Section 2.1, Hard Anodize IAW MIL-A-8625, Type III, Class 2, Color Black As Per MPP-172 Section 4.2 Prime IAW MIL-P-23377J Type1 Class N	Firmed	12/22/17	20 pcs	0 pcs	20 pcs	\$7.25/pcs	\$145.00
Line Item Note RUSH										
13	169183	649.5212	Bracket Issue P/O to ATG : 1- Hard Anodize Black as per Dwg	Firmed	1/17/18	5 pcs	0 pcs	5 pcs	\$10.00/pcs	\$50.00



A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 914353

Date: 22-Dec-17

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chantal Lavoie
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		OUR TRUCK	
Quantity	Description		
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.		
6 ea	Part: 646.3110 Channel Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22199	Rev: N/C PO: PO038682 Line: 11	
20 ea	Part: 649.4813 Shirn Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22200	Rev: D PO: PO038682 Line: 12	✓
10 ea	Part: 647.7823 Cross Bracket Aft Job: 22204	Rev: PO: PO038682 Line: 16	
5 ea	Part: 646.3813 AS530 Strut Bracket Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22194	Rev: N/C PO: PO038682 Line: 6	✓
5 ea	Part: 646.3813 AS350 Strut Bracket Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22195	Rev: N/C PO: PO038682 Line: 7	✓
Made in Canada.			



A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 914353

Date: 22-Dec-17

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chantal Lavoie
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms	Ship Via
	OUR TRUCK
Quantity	Description
	CERTIFICATE OF CONFORMANCE A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements. Date: <u>22/12/17</u> Certified Signature: <u>Josée Richard</u> Receiver Signature: _____ A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited. Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt.
Made in Canada.	